LECTURE 11

Extending the Analysis of Aggregate Supply



Learning Objectives

- Explain the relationship between short-run aggregate supply and long-run aggregate supply.
- Apply the extended (short-run/long-run) AD-AS model to inflation, recessions, and economic growth.
- Explain the short-run trade-off between inflation and unemployment (the Phillips Curve).
- Explain why there is no long-run trade-off between inflation and unemployment.
- Explain the relationship among tax rates, tax revenues, and aggregate supply.

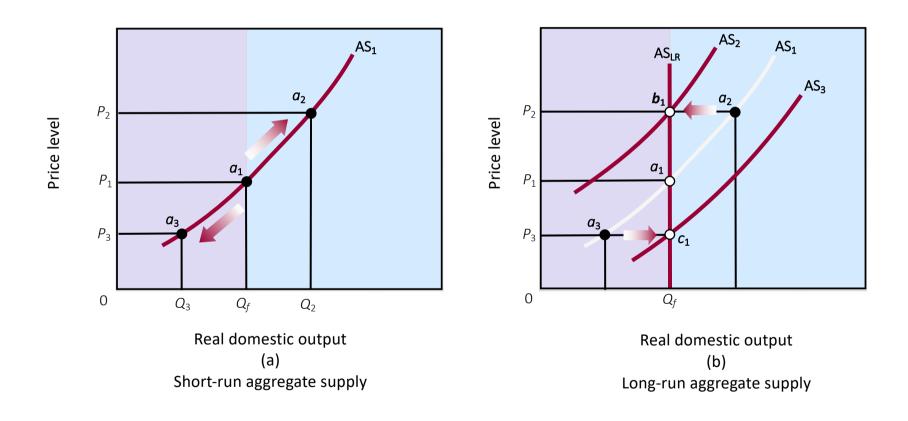
Short Run vs Long Run

- Short run
 - Input prices inflexible
 - Upsloping aggregate supply
- Long run
 - Input prices fully flexible
 - Vertical aggregate supply
- The transition?

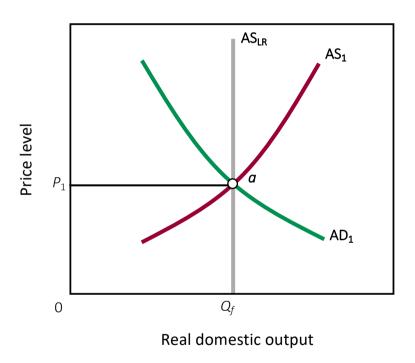
From Short Run to Long Run

- Production above potential output:
 - High demand for inputs
 - Input prices rise
 - Short-run aggregate supply shifts left
 - Return to potential output
- Production below potential output
- Graphical examples...

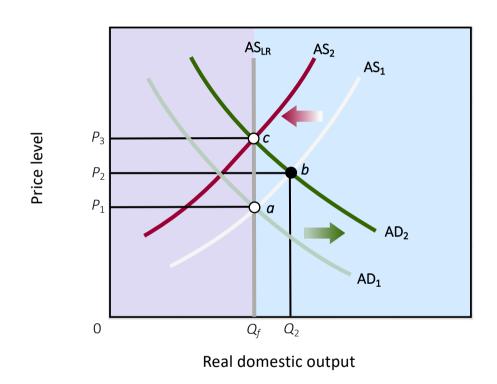
Short-Run and Long-Run Aggregate Supply



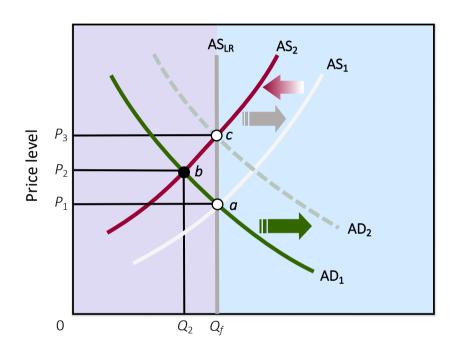
Equilibrium in the Long-Run AD-AS Model



Demand-Pull Inflation in the Extended AD-AS Model

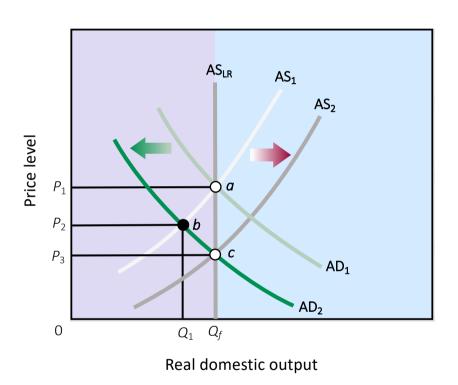


Cost-Push Inflation in the Extended AD-AS Model



Real domestic output

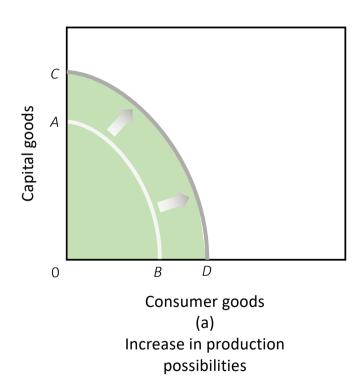
Recession in the Extended AD-AS Model

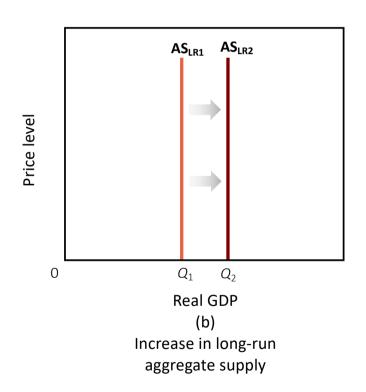


Extended AD-AS Model Uses

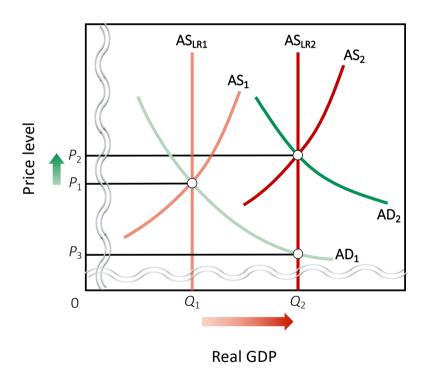
- Explaining ongoing inflation:
 - Ongoing economic growth shifts aggregate supply.
 - Ongoing increases in money supply shift aggregate demand.
- Small positive rate of inflation.

Production Possibilities and Long-Run Aggregate Supply





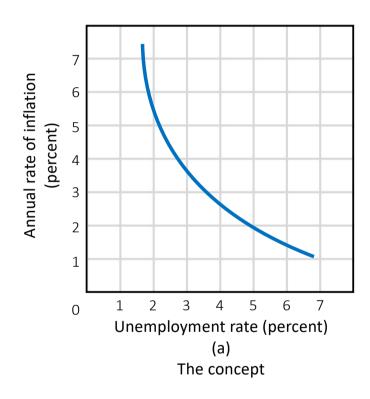
Growth via the AD-AS Model

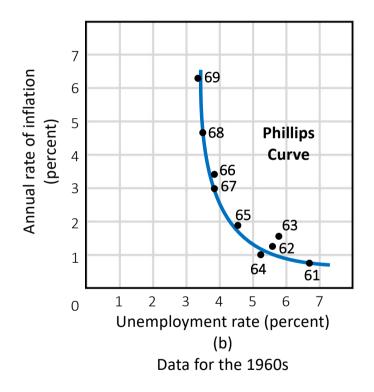


Inflation and Unemployment

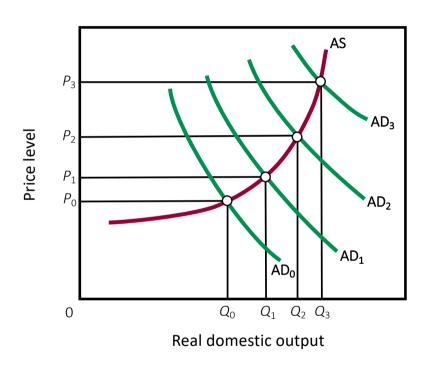
- Low inflation and low unemployment rates:
 - Fed's major goals
 - Compatible or conflicting?
- Short-run tradeoff.
- Aggregate supply shocks cause both rates to rise.
- No long-run tradeoff.

The Phillips Curve: Concept and Empirical Data





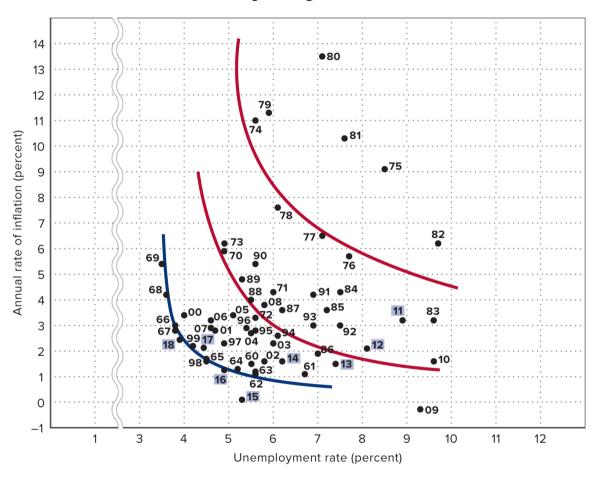
SR Effect of Changes in AD on Real Output and the Price Level



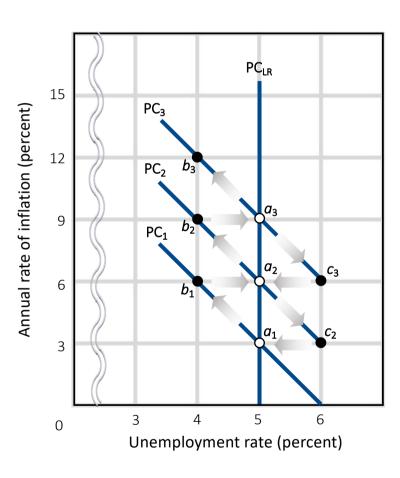
The Phillips Curve: Supply Shocks

- 1960s economists believed in stable, predictable tradeoff.
- Phillips Curve shifts over time.
- Adverse supply shocks 1970s:
 - OPEC oil price shock
 - Stagflation
- Stagflation's demise 1980s.

Inflation Rates and Unemployment Rates, 1960–2018



The Long-Run Vertical Phillips Curve



The Long-Run Phillips Curve

- No long-run tradeoff between inflation and unemployment.
- Short-run Phillips Curve: Role of expected inflation
- Long-run vertical Phillips Curve
- Disinflation

The Laffer Curve

Supply-side economics

- Tax and incentives to work
- Incentives to save and invest

